Top Group MC Needs/Plans

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Production

Toronto Production

- Signal samples
- W/Z samples
- Btagging sample
- 13 M events

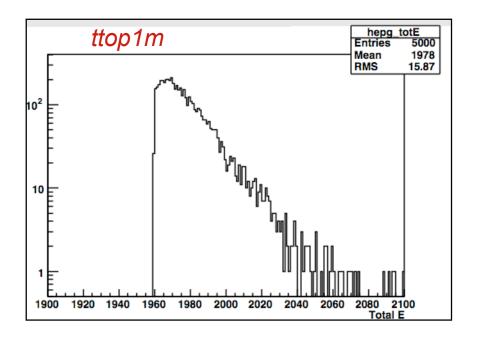
CAF production

- Large dilepton bgs (Z->tau tau, WW)
- W+nP samples
- Varying mass samples
- Btagging sample
- 23.9M events

Herwig E-conservation

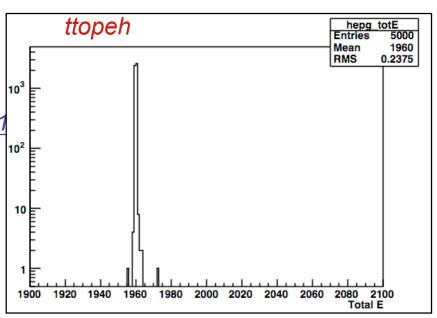
Herwig was compiled with gcc2.96

- -Same issue as before
- -Same consequences
- -Affected: signal & mass samples
- -Spared: Alpgen+Herwig samples





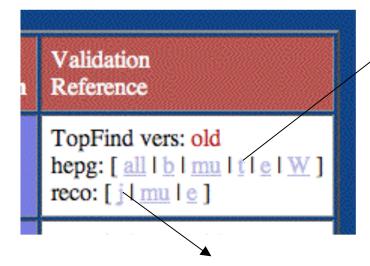
- -6.504
- -6.505

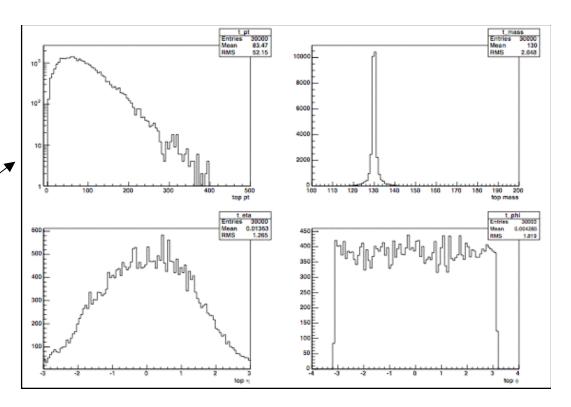


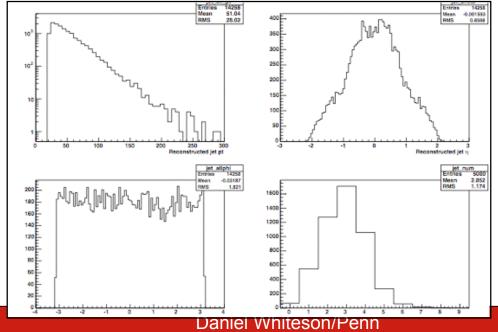
Validation Plots

October 7, 2004

http://www-cdf.fnal.gov/~danielw/topmc5/







Validation plan

Pythia

Generated mt=175 Pythia ttop0z

Herwig

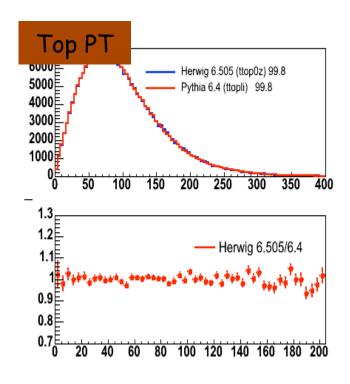
Generated mt=175 6.504 ttopehGenerated mt=175 6.505 ttop1z

- Compare with mt=175 6.4 [gen4]
- Basic checks
 - Hepg & Reco-level plots
- Analysis level-checks
 - Acceptance,
 - Mass bias and sensitivities
- Reproduction en masse

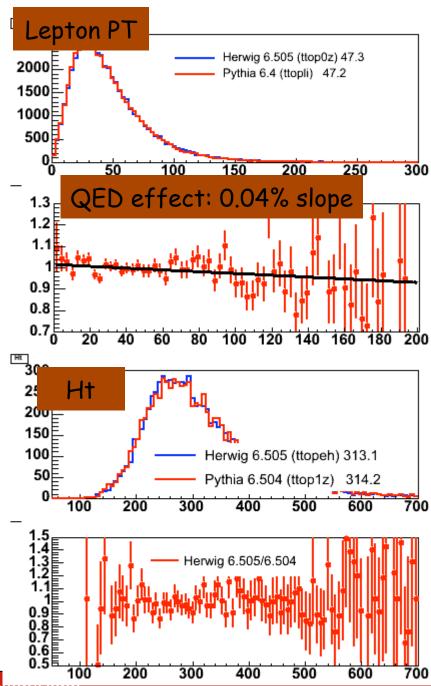
Validation



First validation results (Un-ki)



Everything looks good ... so far!

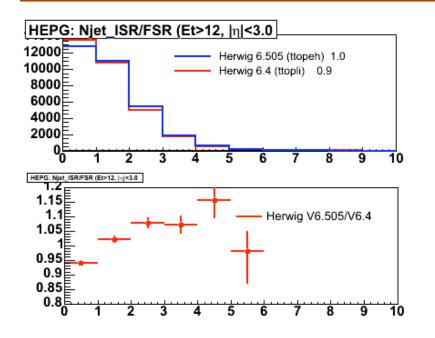


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Herwig validation [Un-ki]

HEPG Jets: Njets(from ISR/FSR)



Plans & Needs

- Plans: Many more samples to be stripped
 & resimulated
 - -Z+nP
 - W->tau
 - All-hadronic

- Needs:
 - Disk space for MC generation